



## Define the Problem

In order to understand the forces and motions present on the moon, a Lunar Test Facility should be constructed to test the student-made designs. Write a statement that will describe how to construct a lunar testing facility. Write the statement in an if/then format.

### Step One

To develop the problem statement, first list all of the perimeters of the problem:

What characteristics must be found within the Lunar Testing Facility?

- 1.
- 2.
- 3.
- 4.
- 5.

### Step Two

Write a description of what the problem is asking you do investigate.

### Step Three: Problem Statement

Write an if/then statement using the information from step one and step two. The statement will guide your investigation and your design of the Lunar Testing Facility.



## Know/Need to Know Chart

Construct a Know/Need to Know Chart based on your Problem Statement. In the first column, brainstorm a list of statements that will describe the Lunar Testing Facility. In the second column, record a brainstormed list of questions that need to be answered before you can construct the Lunar Testing Facility.

| Know | Need to Know |
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